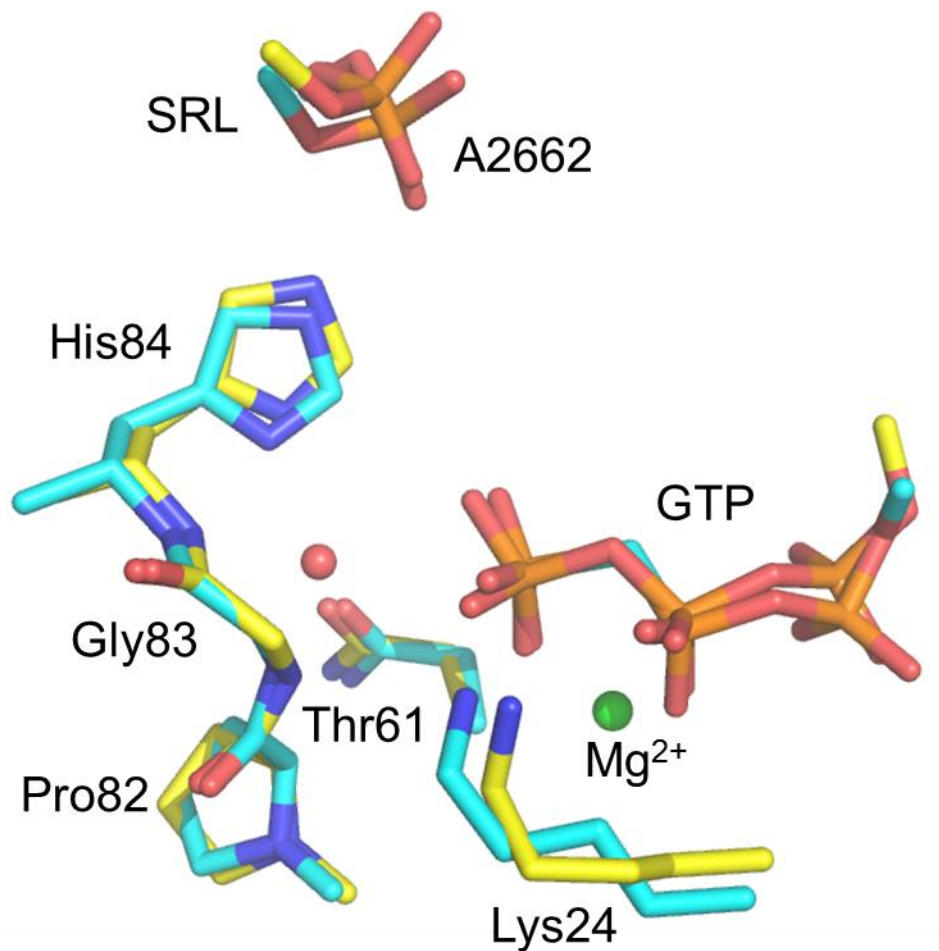


**Exceptionally large entropy contributions enable the high
rates of GTP hydrolysis on the ribosome**

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Supplementary Figure 1. Conformation of the conserved PGH motif in the translational GTPases. The best resolved recent structure¹² of the catalytic site of the translational GTPases in their active conformation (cyan carbons) is overlaid on the MD structure of the intermediate hydroxide ion state shown in Fig. 3b (yellow carbons), with the hydroxide ion and Mg^{2+} shown as red and green spheres, respectively. The specific conformation of the Pro82-Gly83 and Gly83-His84 peptide planes in the crystal structure most closely resembles that of the intermediate state in Fig. 3, which may suggest that this state has actually been captured in the experimental structure.